TOPFIELD

CBI-2070

User Guide

High Definition

Digital Cable Receiver

USB PVR-Ready

IRDETO Advanced Security CAS Embedded

Default PIN: 2010

DVB
Digital Video
Broadcasting

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, in an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.

The exclamation point, in an equilateral triangle, is intended to alert the user to the presence of important operation and maintenance instructions in the literature accompanying the product.

Precautions

- Read, keep and follow these instructions.
- Heed all warnings.
- Clean with a dry cloth only.
- Do not block any of the ventilation openings.
- Do not install near any heat sources or in direct sunlight as this will impair cooling.
- Do not operate this product near water. Do not place any of the objects filled with liquids, such as vases on this unit.
- Do not try to change the plug or defeat its safety purpose. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- This product is designed for indoor use only.
- Place the digital receiver on a firm and level surface.
- Do not lay any objects such as magazines on this unit.
- Do not overload power outlets. Doing so may result in a risk of fire or electrical shock.
- Never open this unit's casing under any circumstances, or the warranty will be void.
- Unplug this unit during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit became wet from rain or moisture, does not operate normally, or has been dropped.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

About this user guide

Thank you for purchasing our digital receiver. Please read this user guide carefully before you use the digital receiver and keep it handy for future reference.

This User Guide covers the model CBI-2070 .

- Illustrations pictured in this manual may not be exactly the same as the actual product.
- The screenshots used in this manual may not be exactly the same as those you see on the actual on-screen displays.
- Designs and specifications of the digital receiver and other accessories are subject to change without any notice in order to introduce new features or improve the functionality of the product.

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Chapter 1

Introduction

The CBI-2070 digital receiver is fully compliant with the international Digital Video Broadcasting (DVB) standard, and thus is able to receive digital broadcasts of that standard.

NOTE

In general we equate a channel with a frequency. However, unlike analogue broadcasts, digital broadcasts are not all assigned to their own frequencies; instead, multiple television broadcasts are transmitted through a single frequency. The frequency in digital broadcasting is usually called transponder or multiplex. To reduce confusion in this manual, the word **service** is preferably used than **channel** as a term to indicate one television or radio broadcast.

1.1 Features

This digital receiver has the following features:

- Can store up to 2,000 television and radio services.
- You can edit the services list.
- Can create lists of your favourite services.

- Can view information about the current television or radio programme.
- Has an electronic programme guide that provides an overview of scheduled programmes.
- Time-shift is a special technical feature available on this digital receiver. You can pause a programme you are watching and resume it again at a later time. Then you can quickly go to any part of the current programme by fast forward or rewind search.
- If you have an external hard drive connected to the digital receiver via the USB port, you can record television programmes into it.

1.2 Controlling the digital receiver

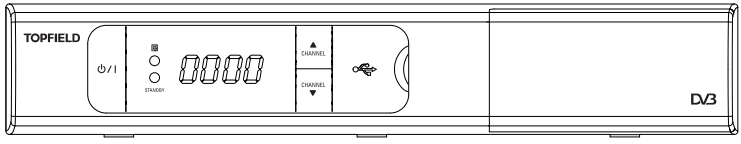
You can operate the digital receiver with the remote control or the buttons on the front panel.

NOTE

When the digital receiver is off but plugged into a wall socket, we say that it is in standby mode; on the other hand, when it is on, it is in active mode. Even when you are not using the digital receiver, you should keep it plugged into a wall socket to be in standby mode so that it can run timer events at any time.

1.2.1 Front panel

The front panel of the digital receiver has buttons to control the digital receiver, specific lights and a display to indicate its status. The following indicates what they mean.



⏻/| button switches the digital receiver between standby mode and active mode.

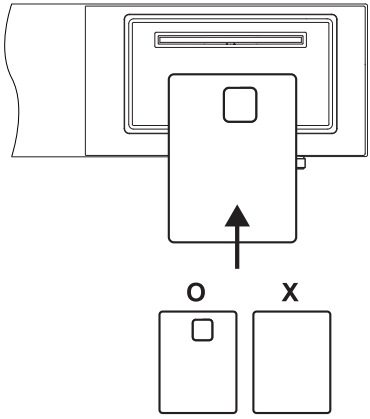
light blinks every time you press a button on the remote control.

STANDBY light lights up while the digital receiver is in standby mode.

Front display shows the current time in standby mode, and displays the current service in active mode.

CHANNEL ▼, ▲ buttons switch to the previous or next service.

There is a flap on the middle of the front panel that protects the USB port behind it from dust, into which you can plug a USB device like a memory stick.



If you want to watch pay services, pull the right edge of the front panel to open the flap, then insert your subscription card into the front slot.When you insert the subscription card, the side on which the chip is mounted must face upward.

1.2.2 Remote control

- (⏻) button switches the digital receiver between standby mode and active mode.
- INPUT selects an input to your television.
- TV switches the remote control to television mode to operate your television.
- VCR switches the remote control to VCR mode to operate your video recorder.
- DVD switches the remote control to DVD mode to operate your DVD player.
- STB switches the remote control to receiver mode to operate the digital receiver.
- Numeric buttons are used to enter a service number for service change or to specify values for menu options.
- (↩) switches over between the current service and the previously viewed one.
- FAV displays the favourite lists.
- (🔇) mutes the sound. Press again to switch it back on.
- (📺/♫) switches over between television services and radio services.
- (⊖), (⊕) buttons decrease or increase the volume.
- (▼), (▲) buttons switch to the previous or next service.
- Navigation buttons are used to navigate in menus or to change values for menu options.
- OK displays the services list. See §5.2.1 for more details. It is also used to select a menu item.
- MENU displays the main menu. It is also used to return to the previous menu from a submenu.
- EXIT is used to exit a menu or to hide on-screen information.
- GUIDE displays the electronic programme guide.

- UHF is not used in this model.
- AUX is not used in this model.
- i displays the service information box. It is also used to display more information about a programme.
- Function(colour) buttons have different functions per menu. They will be guided by on-screen help.
- ♪? is used to select an audio track and a sound mode.
- ▭ is used to select a subtitle track.
- ▤ displays teletext.
- ◷ is used to set a sleep timer in 10 minute increments.
- ◀◀ is used to start reverse playback. Subsequent presses increase the rewind speed.
- ❚❚ pauses live television or playback of a recorded programme.
- ▶ resumes normal playback speed, or displays the progress bar for navigation on playback or time-shift. To play a recorded programme, see button ▤.
- ▶▶ is used to start fast forward playback. Subsequent presses increase the playback speed.
- ● is used to start recording.
- ■ is used to stop playback, to stop recording, or to jump back to live television from time-shifted television.
- ▮▶ is used to start slow motion playback. Subsequent presses change the playback speed.
- ▤ is used to display the list of recorded programmes that are stored in the external hard drive. See §7.2 for more details.
- ▶◀ has different functions per menu.
- ▮◀ is used to jump back to the beginning of the recording on playback.
- ▶▮ is used to jump to the end of the recording on playback.

- SAT is not used in this model.

NOTE

When using the remote control, point it at the remote sensor on the front panel of the digital receiver.

The actual images and the number of buttons may be different depending on the type of remote control provided by the manufacturer.

1.3 Subscription card information

With this digital receiver, you can view pay services scrambled with the *IRDETO Advanced Security CAS* conditional access system. Probably you have a subscription card. If you would like to view information in detail about your subscription card, select the Conditional Access menu. There you can also check the messages from the broadcasting operator.

Chapter 2

Setup

2.1 Unpacking

Before going any further, check that you have received the following items with the digital receiver.

- Remote control
- Two batteries for the remote control (AAA 1.5 V)
- A copy of quick guide

NOTE

Accessories may vary according to your local area.

2.2 Safety precautions

Please read carefully the following safety precautions.

- The mains voltage must range between 90 and 250 volts. Check it before plugging the digital receiver to the wall socket. For the power consumption of the digital receiver, refer to Table 2.1.
- The wall socket should be near the equipment. Do not run an extension lead to the unit.

- The mains plug shall remain readily operable so that it can be removed easily to disconnect the power.
- When placed in a cabinet, make sure there is a minimum space of 10 centimetres around it. For the physical specification of the digital receiver, refer to Table 2.2.
- Protect the power cord from being walked on or pinched. If the cord is damaged, do not use the digital receiver and get the cord replaced.
- Refer all servicing to a qualified service technician.
- To maintain proper ventilation, always leave sufficient space around the digital receiver.

Table 2.1: Power specification

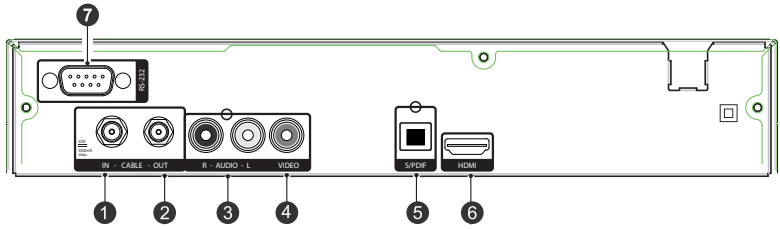
Input voltage	90 to 250 V AC, 50/60 Hz
Power consumption	28 W at maximum in active

Table 2.2: Physical specifications

Size	260× 46× 190 mm
Weight(Net)	1.2 kg
Operating temperature	0 to 45 °C
Storage relative humidity	5 to 90 %

2.3 Rear panel connections

The CBI-2070 has the following connections on the back:



Check what connections your television set has in comparison

with the digital receiver.

1 CABLE IN Cable broadcasting signal input socket

2 CABLE OUT Cable broadcasting signal output socket through the CABLE IN socket for another digital receiver

3 AUDIO L/R Stereo audio output socket for the television set or the audio-video receiver (white/red)

4 VIDEO Composite video output socket for the television set (yellow)

5 S/PDIF Digital audio output socket for the audio-video receiver

6 HDMI Audio and video output socket for the high definition television set

7 RS-232 Serial port for firmware update and data transfer

Table 2.3: Connectors specifications

VIDEO	Composite video (CVBS) output
AUDIO	Left & right audio output
RS-232	115.2 kbps at maximum
USB	2.0 Host 5 V DC, 500 mA Max. (on the front)

2.4 Connecting up your digital receiver

There are several ways to set up the digital receiver. Set up the digital receiver suitably to your television and other devices. If you have any problem with your setup or need help, contact your dealer.

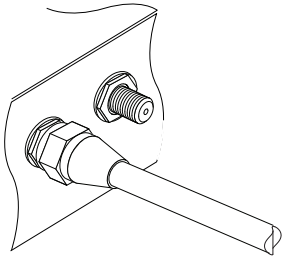
WARNING

Connect any components before plugging the power cord into the wall outlet. Always turn off the product, TV and other components before you connect or disconnect any cables.

NOTE

If you encounter any problems setting up your product, please contact your local retailer.

2.4.1 Connecting to the broadcasting cable



Whatever sort of connection you have between the digital receiver and the television, you need to connect the digital receiver to the broadcasting cable so that it can receive digital television broadcasts. Connect the broadcasting cable to the CABLE IN connector. If you have another digital receiver, you may link it from the CABLE OUT connector.

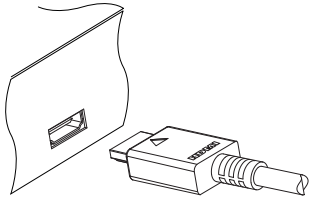
2.4.2 Connecting to your television set

For all the following connections of the digital receiver, we recommend you to use the first connector to get the best picture quality. If your television does not have a matching connector, then use the next connector in the following order for a better picture quality.

1. HDMI connector (HDMI)
2. Composite connector (VIDEO)

You should configure audio and video settings after connecting up the digital receiver. See §4.2 for a detailed description.

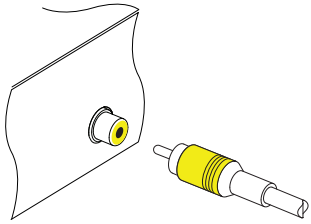
To use the HDMI output



If you have a high definition television set, you should use an HDMI cable for best results. Plug one end of the cable into the HDMI socket on the digital receiver, and plug the other end into the matching socket on your television. In this case, you do not have to make audio connection because it can output stereo audio or digital audio as well.

In this case, you do not have to make audio connection because it can output stereo audio or digital audio as well.

To use the Composite video output

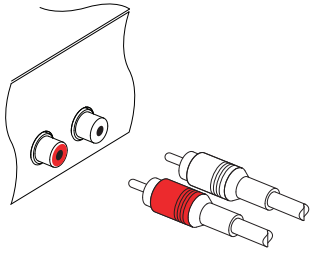


You need to obtain a Composite video cable (RCA cable) to use the Composite video output. Plug one end of the cable into the VIDEO (yellow) socket on the digital receiver, and plug the other end into the matching socket on your television.

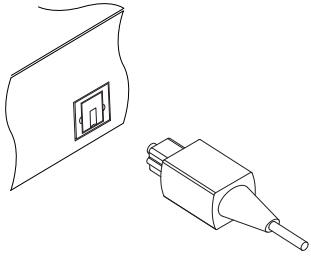
NOTE

You cannot view high definition video by means of the Composite video output.

To make the audio connection



You need to obtain an audio cable (RCA cable) to link the audio connectors. Plug one ends of the cable into the AUDIO L (white) and AUDIO R (red) sockets on the digital receiver, and plug the other ends into the matching sockets on your television or audio-video receiver.



To enjoy Dolby Digital audio, your television or audio-video receiver must be able to decode Dolby Digital audio, and you need to obtain an S/PDIF cable.

Plug one end of the cable into the S/PDIF socket on the digital receiver, and plug the other end into the matching socket on your audio-video receiver.

2.5 Switching on for the first time

Now that you have your digital receiver connected, you should plug it into a wall socket. Ensure that your television set is turned on and on the correct video channel so that you will be able to see the display from the digital receiver.

Before switching on the digital receiver, you should insert batteries into the remote control. Open the battery compartment by removing the lid, and then insert the batteries observing the polarity, which is marked on the base of the battery compartment.

Press the ⏻ button on the top left corner on the remote control. In a little time, you may see a picture displaying a menu.

If you do not see a picture, try pressing the V.Format button on the remote control. If after several tries you still get no picture, check that the television is set to the correct input. If the picture is good, you can skip to §3.1 to search for available television and radio services. Otherwise, you may need to temporarily connect the Composite video connector (VIDEO) to your television set so that you can see the menu in order to configure the video settings.

CAUTION

If the digital receiver no longer reacts properly to the remote control commands, the batteries may be flat. Be sure to re-

place only with 1.5 V AAA size batteries, and observe the following precautions.

- Do not mix different types of batteries, or new and old batteries.
- Do not use rechargeable batteries.
- Do not recharge the old batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment.
- Do not subject to excessive heat such as the sun and fire.
- If you are not using the remote control for a long period of time, remove the batteries. The manufacturer accepts no liability for the damage resulting from leaking batteries.
- Batteries, including those which contain no heavy metals, may not be disposed with other household wastes. Please dispose of used batteries in an environmentally sound manner. Find out the legal regulations which apply in your area.

Chapter 3

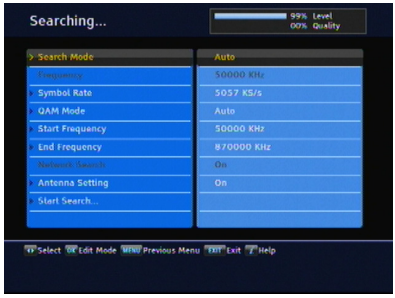
Service Search

After connecting up the digital receiver, you will need to perform a service search.

NOTE

If there is no service stored, you will be not able to access all menus. A SERVICE is another name for a CHANNEL.

3.1 Searching for broadcasting services



To perform service search, select the Installation > Searching menu. You should see a screen like the left figure.

You should set the Search Mode option to Auto at the first service search after installing the digital receiver. The digital

receiver will search all available services with the automatic search mode within the frequency range from the frequency of the Start Frequency option to the frequency of the End Frequency option. Symbol Rate stands for data transfer rate, and QAM is a form of modulation used in digital broadcasting. Broadcasting operators send their services in a symbol rate by a modulation method. Perhaps you do not have to specify the Symbol Rate and QAM Mode options since they are seldom changed. However, you should set the QAM Mode option to Auto for more certainty. You can specify the Start Frequency, End Frequency and Symbol Rate options with the numeric buttons if you want to change them.

If the digital receiver has failed to find every service you want in a service search, you should set the Search Mode option to Network. With this option, the digital receiver will check up the up-to-date channel information as searching services, but it takes rather longer time. To search only one frequency, set the Search Mode option to Manual and specify your desired frequency at the Frequency option with the numeric buttons. In this case, you had better set the Network Search option to On.

To start service search, move down to the Start Search item, and press the OK button. The digital receiver will start to search for services and display a list of television and radio services as they are found. It is common for no channels to be found until quite late in the process. When the scan is complete, you will see a message telling you how many services have been found. Press the OK button to save the list.

3.2 Resetting to factory settings

The digital receiver maintains the following data:

- Services list
- Favourite list
- Timer list

- Preference settings

You can reset all data of the digital receiver. Select the Installation > System Recovery > Factory Setting menu, and then you get asked for confirmation. With the choice of Yes, the services list, favourite list and timer list will all be cleared, and preference options will be reset to the manufacturer's factory settings.

NOTE

A factory reset will not delete any recorded programmes. However, you have to search services again after a factory reset.

3.3 Resetting to user settings

You can store your own data including the following:

- Services list
- Favourite lists
- Preference settings

Also you can restore them at any time.

To store your data, select the Installation > System Recovery > Store System Data menu, then you get asked for confirmation. If you select Yes, your data will be stored. Whenever you store your data, they are all overwritten. To restore your data, select the Installation > System Recovery > Recover System Data menu, then you get asked for confirmation. With the choice of Yes, your data will be restored.

You can also store your data to an external storage. To store your data to an external storage, select the Installation > System Recovery > Export System Data menu, then you get asked for confirmation. With the choice of Yes, your data will be stored. Every time you store your data, they are all overwritten.

To restore your data from an external storage, select the Installation > System Recovery > Import System Data menu, then system data will be listed. Select a data and press the OK button, then your data will be restored.

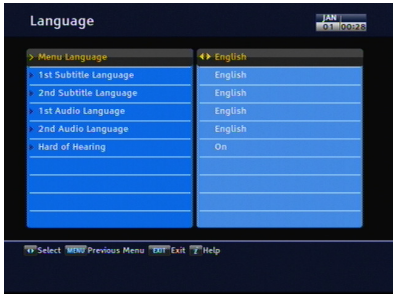
3.4 Clearing the services list

If you only want to clear the services list, select Installation > System Recovery > Reset Service List , then you get asked for confirmation. With the choice of Yes, the services list will be cleared. After this, you have to do service search again.

Chapter 4

Preference Settings

4.1 Language settings



You can select the language in which the menu will be displayed. In addition to that, you can select the language of audio track and of subtitle track. Select the Settings > Language menu. You should see a screen like the left figure.

4.1.1 Menu language

The digital receiver provides menus in several different languages. Set the Menu Language option to your desired language. Once you select a language, the menu will be immediately displayed in the selected language.

4.1.2 Subtitle language

Set the Subtitle Language option to your desired language. When you watch a programme, the subtitle track of the se-

lected language will be displayed if available.

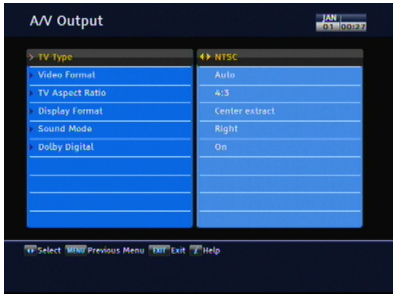
Apart from this setting, you can select a subtitle track with the button. See §5.2.5 for a detailed description.

4.1.3 Audio language

Set the Audio Language option to your desired language. When you watch a programme, the audio track of the selected language will be output if available.

Apart from this setting, you can select an audio track with the button. See §5.2.4 for a detailed description.

4.2 Video and audio settings



You have to configure the video and audio settings appropriately for your television set and other devices. Select the Settings > A/V Output menu. You should see a screen like the left figure.

4.2.1 High definition television

The digital receiver supports various video resolutions from 576 to 1080. In general, a resolution of 720 or more is considered high definition. The higher the resolution is, the better the quality is. However, if your television set does not support high definition, you cannot enjoy high definition quality picture.

Set the Video Format option as you desire. If you set this option to 576P, the digital receiver will present even high definition programmes in resolution of 576. On the contrary, if you

set it to 1080I, the digital receiver will present even standard definition programmes in resolution of 1080.

It is recommended to set it to Auto if you have a high definition television. With that setting the digital receiver will present a programme as it is without any resolution conversion. While watching television you can change the resolution with the V.Format button. Whenever you press it, the video resolution is changed in turn.

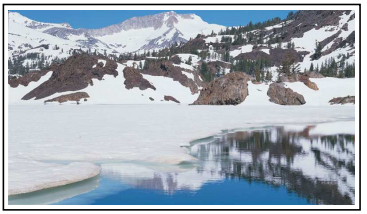
NOTE

You can enjoy only standard definition video with the following video outputs:

- Composite video output (VIDEO)

4.2.2 Television aspect ratio

If you have a wide-screen television, set the TV Aspect Ratio option to 16:9.



You can enjoy both wide-screen programmes and normal-screen programmes with your wide-screen television as the above figures show. To watch normal-screen programmes in full screen like the left figure, set the Display Format option to Full. Normal-screen pictures then will be inflated to fit to the width of the wide screen. Otherwise, to watch them in the original ratio like the right figure, set it to Center. If you have a normal-screen television, set the TV Aspect Ratio option to 4:3.

You cannot fully enjoy wide-screen programmes with your normal-screen television as the above figures show. The left figure shows a normal picture displayed in the normal screen. To watch wide-screen programmes in the shape like the centre figure, set the Display Format option to Letter Box. Wide-screen pictures then will be reduced to fit to the width of the normal screen. Otherwise, to watch them in the shape like the right figure, set it to Center extract. Then wide-screen pictures will be cut out on the left and right sides equally to fit to the width of the normal screen.

4.2.3 Audio mode

Basically, there are two audio sources as you can find two audio sockets on the back panel of the digital receiver. You can enjoy only one source or both of them in either stereo or mono. Set the Sound Mode option as you desire.

Apart from this setting, you can change the sound mode with the (🔊?) button. See §5.2.4 for a detailed description.

The digital receiver can output two types of digital audio signals via the S/PDIF output. One is an encoded signal, and the other is a decoded signal. If you have the digital receiver linked to your audio-video receiver via the S/PDIF output, you have to set the Dolby Digital option to Off, which means that the digital receiver will output encoded Dolby Digital audio without decoding so that your audio-video receiver can decode it. Otherwise, set it to On, then the digital receiver will output decoded Dolby Digital audio, scaling it down to two channels.

NOTE

Only if the service you are currently watching provides a Dolby Digital audio track, you can enjoy Dolby Digital sound.

4.3 Local time setting

You should set your local time for timer events.

Select the Settings > Time menu. You should see a screen like the left figure. You can set the clock manually or use the time signal, Greenwich Mean Time (GMT), carried as part of the digital television broadcast. To use Greenwich Mean Time, take the following steps:

1. Set the Mode option to Auto, then the Time Offset option becomes enabled.
2. Set the Time Offset option to the time difference between your time zone and GMT referring to Table 4.1.
3. Make sure that your local time is correctly displayed on the Local Time item.

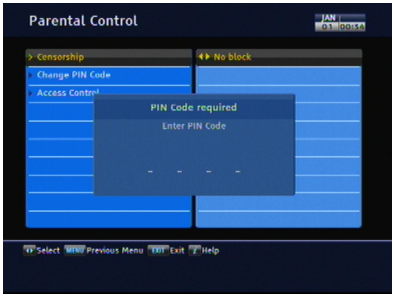
To set the local time manually, set the Mode option to Manual and enter your local time to the Local Time option with the numeric buttons. The time format is *day/month/year 24-hour:minute*. To change the time format to 12-hour format, set the Time Format option to 12 Hours.

Table 4.1: Time offset table

Time offset	City
GMT − 12:00	Eniwetok, Kwajalein
GMT − 11:00	Midway Island, Samoa
GMT − 10:00	Hawaii
GMT − 09:00	Alaska
GMT − 08:00	Pacific Time US, Canada
GMT − 07:00	Mountain Time US, Canada
GMT − 06:00	Central Time US, Canada, Mexico City
GMT − 05:00	Eastern Time US, Canada, Bogota, Lima
GMT − 04:00	Atlantic Time Canada, La Paz, Dominican Republic
GMT − 03:30	Newfoundland
GMT − 03:00	Brazil, Georgetown, Buenos Aires
GMT − 02:00	Mid-Atlantic
GMT − 01:00	Azores, Cape Verde Islands
GMT	London, Lisbon, Casablanca
GMT + 1:00	Paris, Brussels, Copenhagen, Madrid
GMT + 2:00	South Africa, Kaliningrad
GMT + 3:00	Baghdad, Riyadh, Moscow, St. Petersburg
GMT + 3:30	Tehran
GMT + 4:00	Abu Dhabi, Muscat, Baku, Tbilisi
GMT + 4:30	Kabul
GMT + 5:00	Ekaterinburg, Islamabad, Karachi, Tashkent
GMT + 5:30	Bombay, Calcutta, Madras, New Delhi
GMT + 6:00	Almaty, Dhaka, Colombo
GMT + 7:00	Bangkok, Hanoi, Jakarta
GMT + 8:00	Beijing, Perth, Singapore, Hong Kong
GMT + 9:00	Tokyo, Seoul, Osaka, Sapporo, Yakutsk
GMT + 9:30	Adelaide, Darwin
GMT + 10:00	Eastern Australia, Guam, Vladivostok
GMT + 11:00	Magadan, Solomon Islands, New Caledonia
GMT + 12:00	Fiji, Auckland, Wellington, Kamchatka

4.4 Parental control

In general, television programmes are classified according to the level of violence, nudity and language of their content. When you are watching a programme, you can check its programme classification on the information box. For the information box, see §5.2.3. You can prevent your children from watching specific programmes by specifying a maximum permissible level.



Select the Settings > Parental Control menu. You should see a screen like the left figure, and you will be asked your Personal Identification Number (PIN). The number is initially set to '2010' as default.

If you wish to block programmes for viewers aged 15 or above, set the Censorship option to 15 (age). Setting it to No block blocks no programme; on the other hand, setting it to Total block blocks every programme.

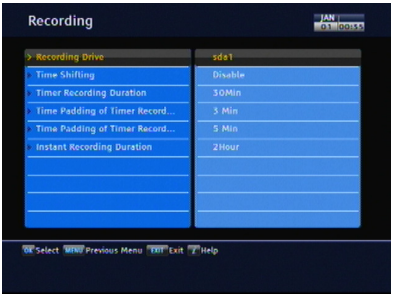
NOTE

If a programme has no rating information, your censorship setting will not take effect.

If anyone is trying to watch a programme that is of or above the censorship setting, the person has to enter the personal identification number to override. To change the number, select the Change PIN Code menu, then a box pops up, asking a new PIN. Enter a desired number twice for confirmation.

You can also restrict uses of some menus. Selecting the Access Control menu displays a list of menus that you can lock. If the Time item is set to Locked, you have to enter the PIN when accessing the Time menu. If you enter a wrong number, you cannot use the menu. To release a locked item, set it to Unlocked.

4.5 Options for recording



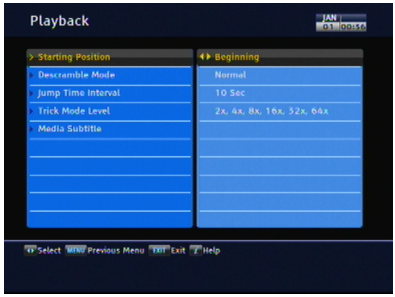
To set the options for recording, select the Settings > Recording menu. You should see a screen like the left figure.

To enable the time-shift function, you should set the Time Shifting option to anything other than Disable. The available range for this option is 30 minutes to 5 hours. You will have the latest of the current programme as long as the duration specified at this option.

You can set the duration of the timer recording. Set the Timer Recording Duration option as you desire. Its available range is 10 minutes to 3 hours.

Time padding is the feature of adding extra recording time to the beginning or end of a programme, so that you do not miss any part of the programme. Set the Time Padding of Timer Recording option as you desire. You can adjust the duration of the instant recording. Set the Instant Recording Duration option as you desire. Its available range is 30 minutes to 5 hours.

4.6 Options for playback



To set the options for playback, select the Settings > Playback menu. You should see a screen like the left figure.

If you want to play back a recorded file from beginning, set Starting Position option to Beginning. To play back a recorded file from the part where you were watching, set this option to Continuing.

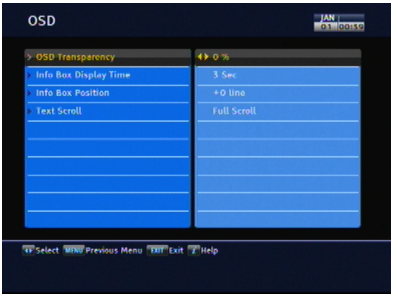
To make a descrambled copy from a scrambled recording, set the Descramble Mode option to Auto Recording; otherwise, set this option to Normal.

You can adjust the jump interval that is for playback. Set the Jump Time Interval option as you desire. Its available range is 10 seconds to 3 minutes.

If you want to enjoy more levels of playback speed, set the Trick Mode Level option to 2x, 4x, 8x, 16x, 32x, 64x; otherwise, set it to 4x, 16x, 64x.

If you have subtitle files such as .smi, .sub, .idx, and .srt, the digital receiver can also display them. The Media Subtitle item provides some options for video subtitle. When you play back a video file with a subtitle file, if the subtitle does not match the video, then you can synchronise them by adjusting the value of the Sync option. In addition, you can change the colour and size of subtitle by setting the Font Color and Font Size options to one you prefer.

4.7 Options for on-screen display



To set the options for the on-screen display (OSD), select the Settings > OSD menu. You should see a screen like the left figure.

To adjust the transparency level of the OSD, set the OSD Transparency option as you desire. Its available range is 0 to 50 percent.

To adjust the display time of the information box, set the Info Box Display Time option as you desire. Its available range is 1 to 30 seconds. If you set this option to No Info Box, the information box will not be displayed when you switch services. However, pressing the (i) button will display the information box. If you set this option to Never Hide, the information box will always be displayed. For the information box, see §5.2.3.

In addition, you can raise or lower the position of the information box. Set the Info Box Position option as you desire. Its available range is -10 to $+3$ lines. The higher you set the option, the lower the information box will be positioned.

If any service's name is too long to fit the width of the service name column on the services list screen, you can get it to scroll by setting the Text Scroll option to anything other than Disable. With the choice of Full Scroll, it will be fully scrolled until its end disappears; with the choice of Part Scroll, it will be scrolled only to its end.

Chapter 5

Every Day Use

5.1 Volume control

Use the ⊖ and ⊕ buttons to alter the volume to a comfortable level. You may need to adjust the volume on your television set too. To temporarily switch off the sound, press the 🔇 button. Press it again to restore the sound to previous level.

5.2 Watching television

To change services, press the ⌄ or ⌃ button. Pressing the ↺ button switches to the previously viewed service. In addition, you can switch to your desired service by entering its service number with the numeric buttons. You can also select a service to watch in the services list.

5.2.1 The services list

To view the services list, press the OK button.

On the services list, you can see the service information as follows:

- Service number and name
- Multiplex information

A dollar sign (**$**) may be marked on some entries, indicating pay service. To watch pay services, you need a subscription card.

To select a desired service, put the highlight bar on its entry with the ▲ or ▼ button and press the OK button, then the selected service will be presented.

Pressing the ◀ or ▶ button skips over 10 entries up or down. Entering a service number with the numeric buttons puts the highlight bar on its entry.

You can switch between the television services list and the radio services list by pressing the button.

Pressing the button displays additional options, with which you can do the following:

- By setting the Show Provider option to On, you can view service entries by groups of broadcasters.
- To change the name of the highlighted service, select the Rename option, then the on-screen keyboard appears, with which you can enter a new name. See §6.3 as to how to use the on-screen keyboard.
- You can prevent other family members from watching the highlighted service by setting the Lock option to Locked. You have to enter your personal identification number to watch or unlock it.
- To add the highlighted service into a favourite group, select the Add to Fav option, then the favourite groups will

be displayed. Put the highlight bar on a desired group and press the OK button.

- You can additionally sort the services list with the Sorting option as follows:

  Default by service number
  Alphabetic by service name
  FTA–CAS from free services to pay services
  CAS–FTA from pay services to free services
  Fav–NoFav from favourite services to unfavourite services.

- To delete the highlighted service, select the Delete option, then you get asked for confirmation. With the choice of Yes, it will be deleted. If you want to restore it as before, you have to perform service search again.

See §6.1 as to how to edit the services list.

5.2.2 The favourite service lists

You can select a service on a favourite list as well as on the services list.

To display the favourite lists, press the 📖 button at the services list screen. For the services list, see §5.2.1.

To select a favourite list, put the highlight bar on a desired favourite group list and press the OK button, then the selected favourite group's services will be listed.

As to how to edit the favourite lists, refer to §6.2.

To select a favourite service, put the highlight bar on a desired service and press the OK button, then it will be displayed. To select another group, press the ↩ button.

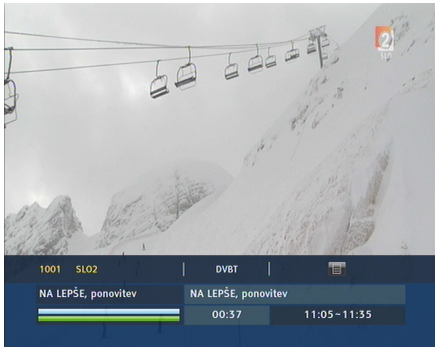
After you have selected a favourite service, if you then switch to another service using the ▲ or ▼ button, it will be also another favourite service of the selected group. The digital receiver will remind you what group you have selected by displaying its name at the top right of the screen whenever you switch services.

To return to the services list, press the button. Besides that, you can add or delete a favourite group or service. To add a new favorite group, press the button to display additional options, and then select Add New Favorite Group. To add the service you are currently watching into a favourite group, press the button to display additional options, and then select Add this service item.

To remove the currently highlighted favourite grop or service, select Delete item in the additional option box, then you get asked for confirmation; with the choice of Yes, it will be removed.

5.2.3 Viewing programme information

Pressing the button displays the information box, on which you can see all of the following:



- Service number and name
- Transponder information
- Signal level and quality
- Programme name
- Programme classification sign
- Programme summary
- Broadcasting time
- Current time

In addition, you might see the following symbols:

- Subtitle symbol ( ) if subtitle tracks are provided on the current programme.

- Teletext symbol (▤) if teletext pages are provided on the current service.
- Dolby Digital symbol (◧◧ D) if a Dolby Digital audio track is provided on the current programme.
- Lock symbol (🔒) if the current service is locked.
- Dollar symbol (**$**) if the current service is a pay service.

Pressing the (i) button once more displays detailed information about the current programme. To hide the information box, press the EXIT button.

5.2.4 Selecting audio tracks

Some programmes are provided with audio tracks in one or more languages. Pressing the (🔊?) button displays available audio tracks. Once you select an audio track, that track will be heard. In addition, you can enjoy audio tracks in four sound modes: Stereo, Mono, Left or Right.

5.2.5 Selecting subtitle tracks

Some programmes are provided with subtitle tracks in one or more languages. If the current programme provides subtitle tracks, the subtitle symbol (▭) will be marked on the information box. Pressing the (▭) button displays available subtitle tracks. Once you select a subtitle track, it will be displayed.

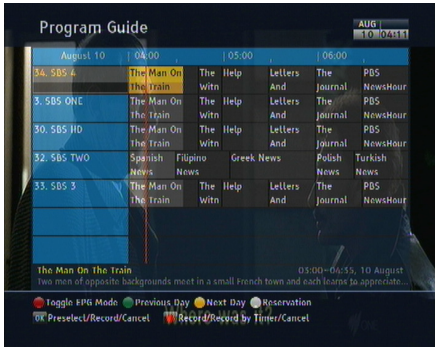
5.2.6 Viewing teletext

On some services, such information as weather reports, news or stock quotations is provided by means of teletext. If the current service provides teletext, the teletext symbol (▤) will be displayed on the information box. Press the (▤) button to view teletext pages.

Select a page to view by entering its page number with the numeric buttons. You can zoom into a teletext page with the (🔍) button, and adjust its transparency level with the (✓) button. To clear the teletext screen, press the EXIT button.

5.3 Viewing electronic programme guide

The Electronic Programme Guide (EPG) shows the current and scheduled programmes that are or will be available on each service with a short summary for each programme.



Pressing the GUIDE button displays the electronic programme guide, on which you can see the following:

- Scheduled programmes
- programme summary
- Broadcasting date
- Broadcasting time

To see detailed information of a desired programme, put the highlight bar on the programme with the ◀ or ▶ button and press the i button. To switch to another service, press the ▼ or ▲ button.

You can travel over previous days with the button, and can travel over next days with the button.

To see the programme guide for radio broadcasts, press the button. To switch it back, press the button again.

Pressing the button will rearrange the form, swapping the columns and rows. To switch it back, press the button again.

You can make a timer recording on the electronic programme guide. See §7.1.3 for detailed description.

5.4 Using time-shift

You can pause and resume a live television programme, and even rewind and replay it. When you are watching a programme and you miss something, you can rewind and replay

it. Or when your attention is needed elsewhere, you can pause a live TV and resume a short time later without losing any of the programme.

When you do this, you are no longer watching the live programme, instead you are watching a delayed presentation. This is called time-shifted television. You can skip commercials until you catch up to the live broadcast.

In order to use the time-shift feature, set the Time Shifting option to desired duration of time. Then the digital receiver will archive the programme as much time as you set in the option. See §4.5.

The time-shift will be reset each time you change to another service. With the time-shift, the following operations are possible:

- To go back in time, hold down the ◀◀ button; to go forward, hold down the ▶▶ button. The progress bar is displayed momentarily with a preview window.
- You can navigate using the progress bar, refer to §7.3.1.
- You can jump backward and forward by pressing the ✓ and 📖 buttons. You can change the jump time at the Jump Time Interval option. See §4.6.
- You can change playback speed. See §7.3.2 for slow motion. For fast motion, see §7.3.3.
- To check your current position in time-shift, press the ℹ button. The time difference compared to live programme is displayed momentarily in top right corner of the screen. A value of −02:00 means two minutes behind the live programme.

- To end time-shift, press the (■) button. The live programme will be displayed.

NOTE

You can adjust some options for time-shift. Refer to §4.5.

Chapter 6

Organising Services

6.1 Editing the services list

You would have got the services list after service search. You can rename, move, lock or delete service entries on the services list.

Select the Edit Services > Edit Service List menu. You should see a screen like the left figure. There are editing options on the left column and service entries on the right column.

Once you put the highlight bar on a desired option on the left column and press the OK button, you can select a desired service to edit on the right column. To go over to the other column, press the button.

To edit the radio services list, press the button, then radio service entries will be listed on the right column. To switch back to the television services list, press it again.

To change the name of a service, select the Rename and select a desired service; then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

Unlike analogue broadcasts, each service does not have a proper service number in digital broadcasts. Service numbers are just assigned to services in the order that they were found in service search. So you can reassign a service number by moving a service entry. To move a service entry, select the Move option and select a desired service; then the selected service becomes darker. As you move it up or down, it gets renumbered according to the position. Press the OK button to fix it.

You can lock some services to prevent your children from watching them. To lock a service, select the Lock option and select a desired service; then the selected service gets marked with a lock symbol (🔒) on it. If anyone tries to watch a locked service, the person has to enter the personal identification number that is set to the Change PIN Code option. See §4.4 for this option. Pressing the OK button on a locked service entry turns it back to be unlocked.

To delete a service, select the Delete option and select a desired service with the OK button, and then press the EXIT button; you get asked for confirmation. If you select Yes, the selected service will be deleted. If you want to undo the deleted service, there is nothing you can do but perform a service search again.

Once you select the Sort option on the left column, sorting options are displayed as follows:

Default by service number
Alphabetic by service name
FTA–CAS from free services to pay services
CAS–FTA from pay services to free services
Fav–NoFav from favourite services to unfavourite services

6.2 Editing the favourite lists

You can make your own favourite service lists. In fact, you can define multiple favourite service lists, each being a 'group' of chosen services.

Select the Edit Services > Edit Favorite List menu. You should see a screen like the left figure. There are three columns:

- Group name (left)
- Favourites list (centre)
- Services list (right)

The services list contains all available services, whereas the favourites list contains only chosen services that have been added to the highlighted group. As you move the highlight bar up or down on the group list, favourite services belonging to the highlighted group get shown in the favourites list.

You can add up to 30 groups. To add a new group, select the NEW item in the group list, then the on-screen keyboard appears. See §6.3 as to how to use the on-screen keyboard.

To rename a group, put the highlight bar on the group entry you want and press the button, then the on-screen keyboard likewise appears.

To delete a group, put the highlight bar on the group entry you want and press the button, then a message box appears, asking you for confirmation. With the choice of Yes, it will be deleted.

You can add a favourite service to a group by taking the following steps:

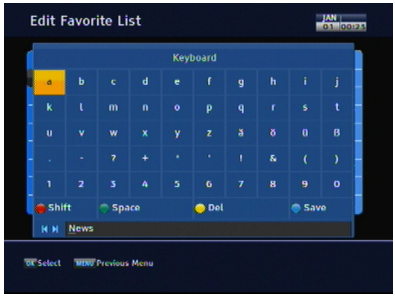
1. Put the highlight bar on a desired group entry in the group list and press the OK button to select it. The highlight bar then moves to the services list.

2. To add a service to the selected group, put the highlight bar on a desired service entry and press the OK button. The selected service entry gets added to the favourite list. Repeat this step to add more entries.
3. Press the button, and the highlight bar gets moved to the favourite list. You can delete a favourite entry with the OK button.
4. To select another group, press the button again, then the highlight bar gets moved to each column.

Furthermore, you can rearrange a group's favourites by moving a favourite entry. To move a favourite entry, put the highlight bar on the favourite entry you want and press the button. Press the ◀ and ▶ buttons or ▲ and ▼ buttons to move it to a desired place and press the OK button. To add radio services, press the button, then radio service entries get listed in the services list. To recall the television services list after adding radio services, press the button again.

As to how to use the favourite service lists you organised, refer to §5.2.2.

6.3 How to use on-screen keyboard

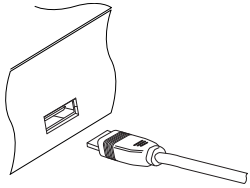


You can move the highlight key horizontally with the ◀ and ▶ buttons and vertically with the ▲ and ▼ buttons. Pressing the OK button on a key enters its letter in the input line. To type a space, select the Space key. To type lower case letters or numerals, select the Shift key.

To delete a letter, put the cursor to the right of the desired letter on the input line and then select the Del key. You must select the Save key to store the name; otherwise if you press the EXIT button, the name will not be stored.

Chapter 7

Recording and Playback



If you want to record TV programmes, you have to link an external hard drive to the USB port of the digital receiver.

NOTE

The external hard drive should be formatted in the NTFS file system. It is also recommended to use an external power socket to have the external hard drive supplied by its own power.

7.1 Recording a programme

Once a recording gets started, a symbol like the left figure will be displayed at the top right of the screen for a few seconds.

CAUTION

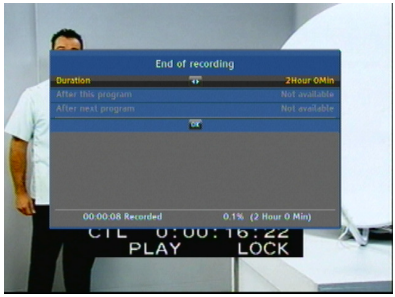
Do not move the digital receiver nor pull out the power plug while it is running. It may cause damage to recorded

programmes. Topfield is not responsible for damages inflicted on files that are stored on the hard drive.

7.1.1 Instant recording

To instantly record a programme you are watching at present, press the ● button.

Pressing the ❚❚ button will not pause the current recording like it does with a video recorder. Instead, pressing the ❚❚ button will pause the live show and begin time-shifting within the current recording even with the Time Shifting option disabled. In short, it is still possible to pause a recording, but literally recording continues in the digital receiver.



After a recording has started, pressing the ● button displays a menu like the left figure, in which you can set the recording duration.

To specify an arbitrary recording duration, set the Duration option as you desire with the ◀ and ▶ buttons and press the OK button; the recording will end at the specified time.

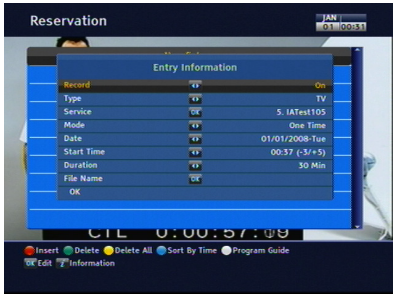
If the information about the next programme is provided by the electronic programme guide, the After this program and After next program options will be enabled. Once the After this program option is selected, the current recording will stop at the time when the current programme is scheduled to end. Likewise, once the After next program option is selected, the current recording will stop at the time when the next programme is scheduled to end.

To stop recording, press the (■) button; then a box like the left figure appears, which shows the programme currently being recorded. Select recording by using navigation buttons then press (OK) button to stop the recording.

While a recording is going on, you can play back one of the recorded programmes. To view the recorded programme list, press the (☰) button. See §7.2 for detailed description about the recorded programme list.

7.1.2 Timer recording

You can set a programme to be recorded at a specific time. Even if the digital receiver is in standby mode, it will switch into active mode and start recording at a specified time. When the recording comes to the end, the digital receiver will switch back into standby mode again in one minute. However, if you press any button on the remote control or on the front panel even just one time, the digital receiver will not switch into standby mode.



To add a timer recording, select the Reservation menu, then the timer list will be displayed. To add a new timer event, press the (●) button, and a box like the left figure appears. Take the following steps:

1. Set the Record option to On to make a recording. If this option is set to Off, the digital receiver will turn on at the

specified time but not record; instead, you may record with your video recorder or suchlike in this case.

2. You may have two sources for recording, TV and radio. Set the Type option to your desired source.
3. Set the Service option to the service which provides the programme you want. Pressing the OK button on this option displays a services list, from which you can select your desired service.
4. Set the Mode option as you desire. There are five timer modes:

   One Time means literally 'one time'.
   Every Day means literally 'every day'.
   Every Weekend means 'Saturday and Sunday every week'.
   Weekly means 'one day every week'.
   Every Weekday means 'from Monday to Friday every week'.

   If your favourite programme is broadcast at weekends and you wish to record every episode of the programme, set the Mode option to Every Weekend.
5. Set the Date option to a desired date, on which the digital receiver will turn on. The date format is *day/month/year-day of the week*.

   Set the Start Time option to a desired time, at which the recording will be started. The time format is *hour:minute*.
6. Set the Duration option to a desired time, in which the recording will be finished.
7. Pressing the OK button on the File Name option displays the on-screen keyboard, with which you can specify a file name for the timer recording. If you do not specify anything, it will be named after the service name. See §6.3 as to how to use the on-screen keyboard.
8. To set a recording reservation with the above settings, select the OK item; otherwise, it will not be saved and

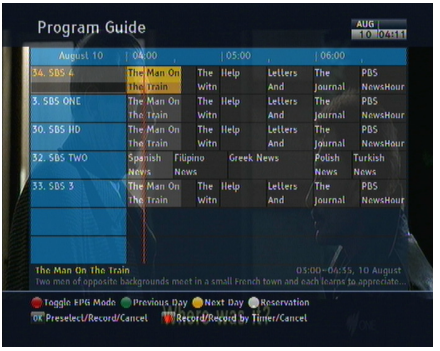
will not occur.

You can also edit or delete timer events in the timer list. To edit a timer entry, put the highlight bar on the entry you want and press OK button; then appears a box in which you can change its settings in the same manner as making a new one.

To delete a timer event, put the highlight bar on the entry you want to remove and press the button, then you get asked for confirmation. With the choice of Yes, it will be deleted. To delete all timer event, press the button.

You can sort timer events by time with the button.

7.1.3 Scheduling recordings using the programme guide



If the electronic programme guide is properly provided, you can make timer events on it. The instructions on how to make timer recordings using the electronic programme guide are as follows:

1. Press the GUIDE button to display the electronic programme guide.
2. Select a programme you want to record with the navigation buttons.
3. To make a timer event without recording, press the OK button; the letter **P** is displayed. To make a timer event with recording, press it once more or alternatively press the button, then the letter **R** is displayed.
4. Pressing the OK button once more will cancel the timer.

7.1.4 Recording a pay service programme

You can record a pay service programme without the subscription card. However, you need the subscription card to play it back because it has not been descrambled. So it is recommended to record pay service programmes with a proper subscription card so that they can be descrambled and recorded. In that case, you can enjoy them without the subscription card like free services.

To record a programme of a pay service in descrambled form, take the following steps:

1. Select a programme of a pay service you want to record.
2. Make sure that the subscription card is inserted in the slot on the front of the digital receiver.
3. Start recording.
4. Do not switch to other service nor use time-shift until recording is finished.

NOTE

If you switch to other service or use time-shift in the middle of recording a pay programme, it will be recorded without descrambling from that moment. Even if the recording is only partially descrambled, you need the subscription card to play it back.

7.2 File archive

When a programme is recorded, it is stored as a file on the hard drive of the digital receiver. You can select a recording to play back from the recorded programme list.

Press the (▤) button to display the recorded programme list. The file information is comprised of the following elements: file number, file name, recording time, running time, file size and so on.

You can play, move, delete, rename and lock a recording file. You can also sort the recording files by file name, running time or file size. In addition, you can make a new folder.

7.2.1 To delete a recording

To delete a recording, put the highlight bar on it and press the (✓) button, then you get asked for confirmation. With the choice of Yes, it will be deleted.

7.2.2 To sort recordings

To sort the recordings, take the following steps:

1. Press the (▶◀) button to display additional options.
2. Set the Sorting option to Alphabetic, Time or Size as you want.
3. Press the (EXIT) button.
4. They will be sorted by the specified option.

7.2.3 To lock a recording

To lock a recording so that other persons cannot play or delete it, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the (▶◀) button to display additional options.
3. Set the Lock option to Locked.

4. Press the EXIT button.
5. The lock symbol ( ) is displayed on it.

If you select a locked recording to play it back, you will be asked for your personal identification number.

7.2.4 To rename a recording

To change a recording's name, take the following steps:

1. Put the highlight bar on a desired recording.
2. Press the button to display additional options.
3. Select the Rename option, and the on-screen keyboard appears. Change the name and save it. See §6.3 as to how to use the on-screen keyboard.

7.2.5 To make a new folder

To make a new folder, press the button, then a new folder named GROUP # is created. You can change its name in the same manner as renaming a recording. See above.

7.2.6 To move a recording to another folder

To move a recording to another folder, put the highlight bar on a desired recording and press the button. If an external hard drive is connected to the digital receiver, you get asked to select between the built-in and external hard drive. Select Internal, then the folders are listed. Once you choose a folder, the recording is moved to it.

7.3 Playing back a recording

When a programme is recorded, its additional contents such as audio track or subtitle track are also recorded together. So you can enjoy them while playing back a recording.

The instructions on how to play a recording are as follows:

1. Press the (▤) button to display the list of recorded programmes.
2. Put the highlight bar on a desired recording and press the (OK) button, then an option box pops up.
3. To play from beginning, set the Starting Position option to Beginning; to play from the point that you have stopped at the last time, set it to Continuing. To start playback, select the Play item.
4. To stop playback, press the (■) button.

During playback, you can enjoy the following tricks:

- To see the detailed information about the currently played recording, press the (i) button; then the information box appears and shows its file name, running time, programme information, and so on.
- To pause playback, press the (II) button. To resume it, press the (►) button.
- To view the progress bar, press the (►) button; to hide it, press the (►) button again.
- When the progress bar is hidden, you can move to a desired scene by entering a progress percentage with the numeric buttons.

7.3.1 To navigate using the progress bar

First press the (►) button to display the progress bar.

- To go forward, hold down the ▶ button; to go backward, hold down the ◀ button.
- If there are no bookmarks, you can jump forward by the minute set to the Jump time Interval option with the (📖) button. See §4.6 for that option. Refer to §7.3.4 as to how to bookmark a position.
- To jump to the beginning, press the (|◀) button.
- To jump to the end, press the (▶|) button.
- To hide the progress bar, press the (►) button again.

7.3.2 To play in slow motion

To watch in slow motion during a playback, press the (▮▶) button. If you press it repeatedly, the playback speed changes in 4 steps: 1/2, 1/4, 1/8 and 1/16 times. To resume normal speed, press the (▶) button.

7.3.3 To play in fast motion

To watch in fast motion during a playback, press the (▶▶) button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the (▶) button.

You can play not only forward but also backward in fast motion. To play backward, press the (◀◀) button. If you press it repeatedly, the playback speed changes. To resume normal speed, press the (▶) button.

You can change the playback speed in 3 steps (4, 16 and 64 times) or in 6 steps (2, 4, 8, 16, 32 and 64 times). See §4.6.

7.3.4 To make a bookmark

You can mark favourite parts of a recording by creating bookmarks and then jump to them in sequence. Bookmarks are stored with the recording so that you can use them again afterwards. To make bookmarks, take the following steps during playback:

1. Press the (▶) button to display the progress bar.
2. To add a bookmark, press the (📖) button at a desired scene, then you will see a small pointer appear above the progress bar like in the picture above.

3. To jump forward to the next bookmark, press the button.

7.3.5 To play back a recording repeatedly

You can play back a recording repeatedly both in whole and in part.

To play back in whole, press the button when the progress bar is hidden, then the repetition symbol ( ) is displayed on the information box. To cancel it, press the button again.

To play back in part, take the following steps:

1. Press the button to display the progress bar.
2. Move to the beginning scene of the part you want to play repeatedly by holding down the ◀ or ▶ button.
3. Press the button, then the pointer starts to blink.
4. Move to the end scene; the selected part is marked in black.
5. Press the button again to start repeated playback.
6. To cancel it, press the button when the progress bar is displayed.

7.3.6 To play back recordings in sequence

You can play several recordings continuously in sequence by performing the following steps:

1. Press the button to display the list of recorded programmes.
2. Select each desired recording with the button. Once a recording is selected, it gets numbered.
3. Press the button to start playback.
4. The selected recordings are played in the sequence that they are numbered.
5. To jump to the beginning of the next recording in the queue, press the button to display the progress bar, then press the button.

7.3.7 To play back a scrambled recording

If you have recorded a programme of a pay service with the subscription card, you can play it as freely like that of a free service. Otherwise you need the subscription card to play it back because it has been recorded without descrambling even though it may have been partially descrambled.

On the recorded programme list, a purely green **$** indicates the recording has been wholly descrambled; on the other hand, a yellowish green **$** indicates it has been partially descrambled, and a purely yellow **$** indicates it has not been descrambled at all.

7.4 Copying a recording

You can record the file in whole or in part during a playback by performing the following steps:

1. Start playback of a recording you want.
2. Move to a scene from which you want to start copying by holding down the ◀ or ▶ button.
3. Press the (●) button, then it will be copied in a new file which is named after the original recording with a suffix of 'COPY' and a number.
4. To stop copying, press the (■) button.

7.5 Formatting the hard disk

If a new hard drive is installed, it must be formatted because you can neither record nor use time-shift with an unformatted hard disk.

You can delete permanently all contents stored in a hard drive by formatting it. Select the Installation > System Recovery > Format Hard Disk menu, and then select the hard drive you want to format.

NOTE

The hard drive on the digital receiver will be formatted in the NTFS file system.

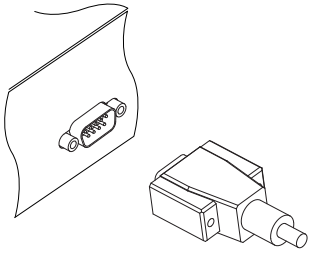
Chapter 8

Firmware Update

8.1 From your computer via RS-232 port

It is possible to transfer a new firmware to the digital receiver from your computer by connecting them with an RS-232 cable. You need *TFD-Down*, a firmware transfer utility for this, which is available from the website, http://www.i-topfield.com.

To update the firmware by this method, take the following steps:



1. Download a new firmware applicable to your digital receiver from the Topfield website.
2. Turn off the digital receiver.
3. Plug one end of an RS-232 cable (9 pin D-sub cable) into the RS-232 port on the digital receiver, and the other end into the matching port on your computer.
4. Run *TFD-Down*.

The instructions on how to use *TFD-Down* are as follows:

1. Press the Find button to select the new firmware file.
2. Press the download button, and then turn on the digital receiver to start the file transfer.
3. A countdown will be displayed on screen.
4. Restart the digital receiver when the file transfer is complete.

It is possible to update the firmware to the latest version over the air.(optional) If a new version is available at any time, then a message box pops up, asking you whether to start firmware update. With the choice of Yes, you will be moved to the OTA Firmware Upgrade menu, and the firmware update will be started.

Appendix A

Universal Remote Control

The universal remote control allows you to operate the most important functions such as power on/off and volume control on your television, video recorder, or DVD player. To be able to control the device, you must adapt the remote control to the device first.

Take the following steps:

1. Turn on the device you want to operate.
2. Point the remote control at the remote sensor on the device.
3. Hold down the device button you want to control until its light flashes on.
4. Find the manufacturer of the device from the codes list.
5. Enter the three-digits code you have found for your device and press the OK button, then the light blinks three times.
6. If you get no response to the remote control from the device, repeat from the step 2.

If you cannot find a code for your device, do as follows:

1. Turn on the device you want to operate.

2. Point the remote control at the remote sensor on the device.
3. Hold down the device button you want to control until its light flashes on.
4. Press the ▲ button until the device turns off.
5. Press the OK button to save it, then the light blinks three times.

A.1 TV

A

A MARK	000
ABEX	130 212
ADMIRAL	013 131 166 230 268
ADPECT	124
ADVENT	308
ADVENTURA	195
AIKO	009 248
AIWA	213 228 245 265
AKAI	014 198 292 341
ALLERON	056 282
AMARK	268
AMTRON	030
ANAM NATIONAL	015 030 205 311 322
AOC	016 017 187 204 018 019 051 140 141 169
APEX	181 215 229 291
ARCHER	268
AUDIOVOX	030
AXION	241 344

B

BELCOR	016 051
BELL & HOWELL	013 042 058 166 266 347
BENQ	283 284 315
BRADFORD	030
BROKSONIC	016 032 168 182 200 278 309 344
BROKWOOD	016 051

C

CANDLE	016 044 051 195
CAPEHART	140
CARVER	012
CELEBRITY	014 292
CELERA	181
CENTRIOS	262
CENTURION	051
CETRONIC	030
CHANGHONG	181 291
CITIZEN	009 010 016 018 030 042 044 051 086 096 139 166 168 173 210 248 264
CLAIRTONE	187
CLASSIC	030 181 291
CLP	190
CLP	CLASSIC 051 188 196
COLOR VOICE	267
COLORTYME	011 016 018 051 267
CONCERTO	016 051
CONCIERGE	125
CONTEC	130 187
CONTEC/CONY	005 006 007 030
CORNEA	051
CORONADO	000
CRAIG	030
CROSLEY	012 294
CROWN	030
CTX	268
CURTIS MATHES	008 012 016 018 042 045 051 058 086 096 139 166 172 173 210 255 266 346 347
CXC	030

D

DAEWOO	000 001 009 016 017 018 030 051 116 139 151 167 201 204 247 248 251 257 258 267 272 312 340 341 344 346
DAYTRON	016 018 051 139
DELL	300 345
DIAMOND VISION	256 277 297
DIGISTAR	211 224 240 328 345
DIMENSIA	045 266 347
DISNEY	252
DUKANE	124 295
DUMONT	016 051 125
DURABRAND	121 168 198 239 244 264 344

DYNASTY	030
DYNATECH	016

E

ELECTROBAND	014 187 292
ELECTROHOME	002 003 311 014 015 016 018 051 198
ELEKTRA	166
ELITE VIDEO	242
EMERSON	000 004 005 016 018 020 021 022 023 024 025 026 027 028 029 030 031 032 033 034 035 036 037 038 039 042 051 056 058 114 139 142 143 167 168 178 188 198 205 206 207 216 231 233 245 258 263 264 269 270 278 280 281 282 325 344 346
ENVISION	016 018 051 191

F

FISHER	042 057 058 059 130 144 275
FUJITSU	056 242 282
FUNAI	030 056 231 245 264 282
FUTURETEC	030

G

GATEWAY	220 GE 003 008 015 016 018 045 051 060 061 062 078 132 147 148 149 174 188 189 235 237 266 293 307 311 337 347
GIBRALTER	016 051 125
GOLDSTAR	000 002 005 016 017 018 051 055 064 120 125 127 130 139 204 245 272
GPX	203
GRUNDY	030 056 282
GUESTVISION	349

H

HAIER	229 239 244 283
HALLMARK	016 018 051
HARSPER	184 185
HARVARD	030
HISENSE	229 303 314
HITACHI	000 005 006 007 016 018 051 067 068 069 100 101 102 103 104 105 106 107 108 109 119 123 124 130 143 161 166 171 179 245 261 263 271 285 295

I

ILO	254 334 353 354
IMA	030
INFINITY	012 294 335
INITIAL	353
INSIGNIA	168 224 231 240 244 264 317 319
INTEGRA	287
INTEQ	125

J

JANEIL	195
JBL	012 294
JC PENNEY	003 006 008 010 016 017 018 041 044 045 051 055 060 061 064 078 086 095 096 117 130 132 139 189 204 210 235 237 266 269 293 347
JCB	292
JENSEN	016 018 051 319
JVC	005 006 007 046 047 048 061 068 128 129 130 133 158 178 218 242 271 285 342

K

KAWASHO	014 016 018 051 292
KAYPANI	140
KEC	000 030
KENWOOD	002 016 018 051
KLH	181
KLOSS NOVABEAM	030 049 065 195
KMC	000
KONKA	030 217 222 234 279 317 352
KTV	030 066 139 142 187 280

KURAZAI	166

L

LASONIC	256 277
LG	017 051 063 125 130 204 245 272
LIQUIDVIDEO	241 253 344
LODGENET	166 266 305 347
LOEWE	289 294
LOGIK	013 166 266 347
LUCE	208
LUXMAN	016 018 051
LXI	008 012 018 040 041 042 045 051 058 086 132 237 245 266 294 347

M

MAGNASONIC	282
MAGNAVOX	000 002 010 012 016 018 043 044 046 049 050 051 065 079 110 111 112 230 231 285 294 335 349
MAJESTIC	013 166 266 347
MARANTZ	012 016 018 051 067 287 294
MEDION	252 254 324
MEGATRON	018 051 067 124
MEI	187
MEMOREX	013 017 018 042 051 056 058 166 168 200 266 278 282 347
MGA	002 003 016 017 018 051 052 053 059 130 204 275 282 285
MIDLAND	008 125 130 189 237 347
MIKEI	030
MINUTZ	293
MITSUBISHI	002 003 016 017 018 051 052 053 054 059 115 198 204 275 282 285 286
MONIVISION	219
MONTGOMERY WARD	013 166 266 347
MOTEVA	042
MOTOROLA	015 131 268 311
MTC	016 017 210 018 051 086 096 187 204
MULTITECH	030
MULTIVISION	076
MYRON & DAVIS	306

N

NAD	018 040 041 051 086 134 171 212
NEC	011 015 267 285 016 287 017 311 018 051 075 204
NET TV	194 220
NEXXTECH	240 333
NIKKO	009 018 051 248
NORCENT	221 229 312
NTC	248

O

OLEVIA	051
ONCOMMAND	349
ONKING	030
ONWA	030
OPTIMUS	134 138 171 199 212 290
OPTOMA	327
OPTONICA	075 131 268
ORION	032 125 168 206

P

PANASONIC	015 061 246 290 066 294 138 311 152 175 189 199
PHILCO	000 002 005 010 012 015 016 017 018 043 044 046 049 050 051 065 204 285 294 311 349
PHILIPS	000 002 044 046 079 196 285 294 005 049 214 311 010 051 231 335 012 065 235 338 015 070 243 344 016 077 264 345 043 078 276 349
PHILIPS-MAGNAVOX	230 243 294 335 338 349
PILOT	016 051
PIONEER	016 018 051 071 072 134 143 171 212 263 273 287 295
PIVA	326

POLAROID 303 319 321
PORTLAND 000 009 016 017 018 051 139 204 248 251 346
PRECISION 226
PRICE CLUB 096 210
PRIMA 211 224 240 328
PRINCETON GRAPHICS 260 268
PRISM 061 189
PROSCAN 008 045 132 237 266 301 336 347
PROTON 005 016 018 051 073 140 227 304 316
PROVIEW 354
PULSAR 016 051 125

Q

QUASAR 015 061 066 074 138 175 189 199 290 294 311

R

RADIO SHACK 042 051 058 138 245 266 281 307 337 347
RADIO SHACK/REALISTIC 005 016 018 030 042 045 058 075 130 139
RCA 002 008 015 016 017 018 019 045 051 090 091 092 093 094 099 118 132 135 136 143 148 153 162 167 172 176 180 189 192 204 237 263 266 288 301 307 311 336 337 347 351
REALISTIC 042 051 058 138 245 266 281 337 347
RHAPSODY 187
RUNCO 125 287

S

SAMPO 016 018 051 130 139 140 186 194 220
SAMSUNG 000 002 005 008 016 017 018 051 086 095 096 097 130 139 151 163 204 209 210 223 232 255 272 302 310 339 341
SAMSUX 051
SAMTRON 210
SANSUI 168 200 278
SANTECA 197
SANYO 016 042 051 053 057 058 085 098 130 137 144 236 250 275
SCOTCH 051
SCOTT 005 016 018 020 021 030 032 051 056 206 282
SEARS 000 002 006 007 008 012 016 018 040 041 042 045 047 051 056 057 058 059 086 087 130 132 144 160 200 210 231 237 259 264 266 275 282 294 298 347
SELECTRON 330 331 332
SHARP 000 005 016 018 023 026 033 051 075 080 088 089 113 131 139 230 259 268 299 313 318
SHOGUN 016 051
SIGNATURE 004 013 166 266 347
SIMPSON 044
SONIC 187
SONY 014 150 343 350 157 159 164 170 177 292
SOUNDESIGN 010 016 018 030 044 051 056 282
SPECTRAVISION 323
SQUAREVIEW 264
SSS 016 030 051
STARLITE 030
STARSIGHT 190
SUPERSCAN 231 259 298
SUPERSONIC 203
SUPRA 051 296
SUPREMACY 195
SUPREME 292
SVA 229
SYLVANIA 002 010 012 016 018 043 044 046 049 050 051 065 079 081 146 168 231 245 264 285 294 348 349
SYMPHONIC 020 030 056 160 231 245 264

SYNTAX	051

T

TANDY	131 268
TASHIKO	041
TATUNG	015 254 283 311
TECHNICS	061 189
TECHWOOD	016 018 051 061 189
TEKNIKA	000 005 016 017 096 130 210 248 006 018 138 266 007 030 139 282 009 044 166 347 010 051 175 012 056 195 013 086 204
TELECAPTION	082 238
TELERENT	166 266 347
TERA	016 051 227
TEVION	254
THOMSON	154
TMK	016 051
TOSHIBA	040 041 042 058 075 082 083 086 096 130 138 145 146 155 156 183 200 202 210 238 255 274 285 287
TOTEVISION	139
TRUTCH	329

U

UNIVERSAL	060 078 235 293

V

VICTOR	271
VIDIKRON	012
VIDTECH	016 051 204
VIEWSONIC	220 295
VIKING	195
VIZIO	283

W

WARDS	000 002 012 013 016 017 018 020 021 043 044 045 046 049 051 056 060 065 075 078 079 084 166 204 235 266 282 293 294 347
WESTINGHOUSE	193 320
WHITE WESTINGHOUSE	225 245 251 272 346

Y

YAMAHA	002 016 017 018 051 138 204

Z

ZENITH	004 013 125 126 245 248 344 016 140 251 033 165 255 051 166 258 121 168 278 122 190 335 124 230 342

A.2 VCR

A

AIWA	049
AKAI	061 063
AMPRO	044
ANAM	025 026 027 028
AUDIO DYNAMICS	000

C

CANON	028
CAPEHART	018
CRAIG	006 064
CURTIS MATHES	008 009 028

D

DAEWOO	010 013 016 017 018 019 020 021 022 023 024 026 033 075 077
DAYTRON	018
DBX	000
DYNATECH	053

E

ELECTROHOME	043
EMERSON	003 008 066 067 009 068 010 028 041 062 065

F

FISHER	075

G

GE	008 009 028 044

H

HARMAN KARDON	000 047 069
HITACHI	001 002 045 046 047 048

I

INSTANTREPLAY	028

J

JCL	028
JCPENNY	000 006 028 045 054
JVC	000 028 055 070 078

K

KENWOOD	048 055 055

L

LG	000 001 002 003 004 045
LXI	001 003 010 045

M

MAGIN	006
MAGNAVOX	008 009 028 057 068 072
MARANTZ	000 028 057 073 076
MARTA	003
MEI	028
MEMOREX	003 006 028 044 053 075
MGA	043 047 069
MINOLTA	001 002 045
MITSUBISHI	002 043 045 047 050 051 052 053
MTC	006

N

NEC	000 054 055

O

OPTONICA	053

P

PANASONIC	027 028 056
PENNEY	000 001 054
PENTAX	001 002 028 045
PHILCO	028 057
PHILIPS	003 028 057 058 059
PILOT	003
PIONEER	045 055 060
PORTLAND	018
PULSAR	044

Q

QUASAR	028 074

R

RCA	001 002 006 008 009 028 045 071
REALISTIC	003 006 028 053 075
RICO	035
RUNCO	044

S

SAMSUNG	005 006 007 008 009 010 011 012 013 014 015 032 041 061
SANSUI	055 064
SANYO	006 017 075
SCOTT	010 013 041
SEARS	001 002 003 010 028 042 045 075
SHARP	028
SONY	028 030 037 038 031 039 032 040 033 034 035 036
STS	001 045
SYLVANIA	028 043 057

T

TAEKWANG	029
TANDY	075
TECHNICS	027 028
TEKNIKA	003 028
TMK	062
TOSHIBA	010 013 041 042 043 045 048
TOTEVISION	003 006

U

UNITECH	006

V

VECTOR RESEARCH	000 054
VICTOR	055
VIDEO CONCEPTS	000 054
VIDEOSONIC	006

W

WARDS	001 006 053 008 009 010 028 041 045

Y

YAMAHA	000

Z

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